Using Zero-Knowledge Proof for the Problem of Other Minds and the First Cause

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Abstract: In this whitepaper, I demonstrates how to use cryptographic principles to solve the problem of trust in interpersonal relationships, and thereby solve the problem of other minds, and prove how love is the First Cause that transcends existence, and reveal the implications behind it, while giving practical ways to restore relationships. Finally, it demonstrates the mechanism of the Miracle of Fatima, and the hidden details in the Bible.

Argument 1: Zero-Knowledge Proof of Trust and "Love as the First Cause"

Demonstrates how to apply zero-knowledge proofs to form trust in interpersonal relationships, thereby proving that motive precedes existence: love is the First Cause.

System variable definitions:

P (Pure Motive): The pure motive of an individual, innately desiring good for oneself or the other for the sake of love (goodness, hope, existence, meaning, relationship, trust, equality): Love. $P > 0$.

t (Trauma): Traumatic memory. The variable left behind after an individual is harmed by the environment or others.

D (Defense): Defense mechanism. The deformed motive of P after trauma. The formula is $D = P + t$. It manifests as fear, threat, doubt, or concealment.

t_env (Entropy Environment): Environment of scarcity. The physical universe environment full of noise, the unknown, and danger ($t_env > 0$). In this environment, if an individual reveals P, they bear the risk of being harmed.

M (Motive State): Internal motive state: The hidden internal motive state (internal black box) possessed by every individual. The formulas are $M = f(P, t)$ and $M = P + t$. It can be P or D.

C (Clue): Physical clue. The behavior (words, actions) or other physical clues left by the individual in t_env based on M.

CS (Consensus): Consensus (Type I Model). Both parties or one of the parties in the condition of $t_env > 0$ and carrying t, after specific interactions, form a trust relationship where both parties like "the other person themselves".

T (True Love): True love (Type II Model): Exclusive and selfless, a stable relationship capable of stably overcoming t. Both parties or one of the parties in the condition of $t_env > 0$ and carrying t, after specific interactions, form a stable trust relationship.

* Type I Model of Trust (Cryptographic Deduction):

* Premise: A and B are in $t_{env} > 0$. Both sides hide their motives $M_A = M_B = P$. At least one party carries traumatic memory ($t > 0$), ensuring trust is a dangerous leap of free will, rather than a mechanical reaction.
* Encryption and Transmission: Individual A, under traumatized conditions ($M_A = P + t$), according to free will, chooses the motive P to give physical clue C_A to B. To an observer lacking P, the information content of C_A is extremely low, only noise or meaningless.
* Verification and Decryption (Zero-Knowledge Verification): After B sees A carrying t and giving C_A, if and only if B's internal state has P (excluding the calculating interference of D), B's internal P is the only "isomorphic private key" that can decrypt C_A. B does not need to crack A's black box, and can directly obtain the decryption result $P = M_A$.
* Establishment of Relationship: B displays the corresponding C_B as a response. After A receives C_B, they see their own motive P, and reversely confirm that B possesses the isomorphic P. In the situation where neither party directly exposed their internal motives, the zero-knowledge proof of $M_A = M_B = P$ is completed.
* Conclusion: For both parties, both parties' love is real, and the consensus CS is established. And in this situation, individuals without the motive P in the universe are still permitted, therefore the mutual trust is "exclusive", built on liking "the other person themselves", as long as the other party is interfered with by the environment and deforms the other party's love will disappear, the relationship at this time is "fragile".

* Proof of Motive P as the First Cause (Motive precedes existence)

Deduction 1: Existence depends on motive: C_A as a physical existence, its sole purpose of birth is to carry P. Without P, C_A does not exist or is reduced to meaningless noise. Logically: "Motive (protocol)" precedes "existence (carrier)".
Deduction 2: The teleology of environmental scarcity: If the universe is a frictionless utopia ($t_{env} = 0$), signals can be broadcast losslessly, then the free will of "overcoming fear and choosing trust" cannot be manifested, zero-knowledge proofs will be meaningless. Therefore, the danger and noise of the physical universe ($t_{env} > 0$), traumatic memory t and the existence of individual black boxes, are logically the "inevitable environment" for the trust relationship CS / T to be tested and verified. Achieving a trust relationship is the purpose of the motive "love", below will show how achieving "true love" is the ultimate goal of everything.
Deduction 3: Protocol is the First Cause: A and B being able to decode perfectly with their independent private keys, proves that before their physical entities existed, the "pure motive protocol (P)" already existed. It is this a priori protocol that birthed the entities A and B capable of executing it.

Argument 2: Solution to the Problem of Other Minds

According to Argument 1, P is the First Cause, therefore the defense mechanism D cannot exist independently, it is only a deformed state of P interfered with by t. The internal state of an individual can only be the following three:

* $M = \text{Null}$ (Philosophical Zombie): A pure physical reactor with no inner world.
* $M = P$: A pure state without trauma.
* $M = P + t$: A traumatized state.

Proof Process:

* Assume B is a philosophical zombie of M = Null, its interior only relies on physical computation and logical deduction.
* In the high-noise environment of t_env > 0, the objective physical information contained in C_A is severely insufficient. From the physical and logical level reverse deduction the mathematical probability of M_A approaches zero.
* Therefore, B can accurately decode C_A and give a perfectly symmetrical C_B, its path absolutely cannot be built on external physical clues or logical computations.
* Conclusion: The only explanation for B reaching the perfect result, is that inside B exists a "non-physical a priori structure (P)" perfectly aligned with A. B does not "calculate" A's motive, but through the internal isomorphic P "resonates" the answer.
* This constitutes ironclad proof: B is absolutely not a mechanical empty shell, but possesses a real operating internal subjective world (other mind), and possesses the ability to produce the pure motive P.

Argument 3: There is no pure evil

* Explain how "Love" becomes the purest motive preceding existence

If environmental threat drops to zero (t = 0), outputs pure motive P:
f(P, 0) = P

If the individual's desire for existence drops to zero (P = 0), then the individual does not exist, meaningless:
f(0, t) = Null

Conclusion: t must be attached to P to have meaning. P is the system's only irreducible independent constant (First Cause), therefore, love in logic and time sequence, precedes defense and survival. The scarcity of the physical universe (t_env > 0), logically is the inevitable testing ground for P to be tested and verified.

* Explain that "evil" is only love under trauma or threat.

Pure motive: When trauma approaches zero, individual motive shows desire for pure goodness P.
lim (t -> 0) M(t) = P

Threat state (Defense mechanism): When threat increases, inevitably in order to protect the individual's goodness and existence produces defense mechanism.
M(t>0) = D

Extreme state (Pure evil): When defense mechanism (threat) approaches infinity, P does not exist, individual existence also does not exist.
lim (t -> infinity) M(t) = 0

Conclusion: There is no independently existing "evil". All evil, fundamentally is P infinitely compressed when t approaches infinity.

Corollary: According to the Type I Model and Argument 3, the behavior of an individual with a defense mechanism does not come from free will (except hiding), and there is no pure evil. Therefore the standard for judging people is motive is higher than behavior: we do not allow hate and evil, but we do

not blame, because blaming is equivalent to agreeing with "evil" itself. When not blaming an individual with a defense mechanism, the motive at this time is for "love" itself.

Since this is the case, looking back at the Type I Model, why does the other party want to reach a consensus with the opponent? Notice that in the Type I Model in the perspectives of both parties, they cannot answer the problem of other minds, therefore A does not know B's love, it is because clearly seeing B loves A so likes B, what they confirm is objective consensus. Carefully examining the meaning of consensus, it is exclusive, it belongs to the other's love, it is love out of both parties wanting good for themselves.

At this time according to the deduction of Argument 2 (proof of other minds), Argument 3 (no pure evil), can draw out Righteousness in the motive "love" as the highest moral standard (highest protocol), combined with the Type I Model, then define: the difference between "for love" and "liking the other's love", dividing love into motive and means (becoming love itself and getting love from the other). The difference is liking "the other person themselves" so wanting love, this is exclusive, this is treating love as a means. Righteousness is the motive "in order to maintain love", simply put, is "for people, right or wrong things", it is selfless, is the motive to maintain goodness, only because everyone deserves to be loved, but does not allow "evil" itself.

Argument 4: How stable trust relationships (true love) are formed

Demonstrates how to concretely restore relationships between people to eliminate doubt, fear, and demonstrate how a trust relationship combined with "Righteousness" itself is the best relationship.

* Type II Model (Text Deduction):
In order to demonstrate how people who both love each other form a stable trust relationship (true love), the premise is the same as the Type I Model, but one of the parties has "selfless love" and both parties love each other.

a. Cross fear to establish consensus: When fearing the other party use actions to show your true heart and let the other party see your fear, if the other party responds with true heart, that means the value of this true heart of your brave crossing of fear has been seen by the other party, a consensus of "love" is generated between yourself and the other party.

b. "First Mover" demonstrates selflessness (starting point of restoring relationship): After establishing consensus, if because of trauma you hurt the other party, the other party after seeing your reaction actively responds with true heart, you can see the love given by the other party is selfless based on for "love" itself, this is the starting point of restoring a stable relationship.

c. How to eliminate "fear" and "doubt": Every time feeling fear or doubt towards the other party, recognize that in the relationship already established now, the other party will not hurt or betray you for "love" itself. You also know the other party loves you, because both parties like "love". Then you know the other party's behavior is a misunderstanding produced by the interference of the noise environment, or the other party actually intentionally encrypted behavior for protection, or because of your own past traumatic memory so fear the other party. Therefore eliminated your own fear, the relationship is officially restored.

d. Two-way selfless confirmation, establishing true love: After relationship is restored, if the other party hurts you because of trauma, or because of misunderstanding thinks the other party is hurting you, you still can actively respond with true heart, you can see the love you give is selfless based on for "love" itself. Then "both parties" are selfless love. The love at this time is exclusive, universal, stable, which is true love.

e. Confirm self-value and face the unknown: Every time doubting your own ability or feeling ashamed, seeing yourself because liking love, for love and still wanting to love the other party, finding the value of yourself liking love, to see your own goodness, see your own shyness. Or see your own traumatic memory. Or recognize this is because fearing yourself not worthy of a relationship, reminding yourself the other party will not abandon you for "love" itself, the other party also affirms your value of liking love, then don't need to fear the other party thinks you are not worthy. Then you can because of liking want the other party to love you, pursue things you like, distinguish right from wrong, believe you have the ability to face the unknown.

Deduction 1: Doubting a lover's love, or worrying whether an unfamiliar party loves you, then according to the First Cause find evidence of the other party loving you. See the other party's defense mechanism D is formed subject to the trauma t given by the environment, therefore do not blame the other party, maintain "Righteousness".

Deduction 2: Both parties who already have defense mechanisms but love each other if wanting to form a stable trust relationship (true love), assuming A has "selfless love", B has "doubt", "fear" and hides, wait until B hurts A, and B thinks A is fearful, A actively shows love to B, then B possesses the ability of self-regulation, the relationship is officially restored.

Deduction 3: If disgusted with the other party, see it is the other party's defense mechanism, or yourself being interfered by the scarcity environment itself and stimulating your own traumatic memory. At the same time see yourself actually is disgusted with the other party's defense mechanism, not the person themselves (trauma and defense mechanism are the means to form a relationship). See you after being hurt did not stab back, is because you care about "love" itself, which is "Righteousness". See your traumatic memory being stimulated comes from you liking your own value. If you choose to stab back, you are recognizing "evil" itself, therefore you can choose "hide" to replace.

Conclusion: True love is being able to still choose to love the other party when seemingly threatened by the loved person, and willing to love a person who has no benefit to you, even seemingly will threaten you, at the same time forgive and do not blame seemingly "evil" or traumatized people.

Argument 5: Proof of individuals outside the universe

According to the proof of motive precedes existence, readers can understand this proof represents the reader has "Righteousness" and "Righteousness" can be written down to let people see. The existence of this proof, which is this existence from the physical universe, means outside the universe itself there is at least one individual with the motive "Righteousness" identical to us, and this Righteousness directly means the motive: for the formation of true love.

Since all existence is for restoring true love relationships, according to the Type II Model, can know if this individual outside the universe (temporarily called God) wants to restore relationship with humans,

what he/she needs to do, then we can see why outside the universe there needs to be an individual to complete the purpose of forming true love relationships for all individuals.

Challenge Response: Since motive precedes existence, how is AI only pure existence?
AI is a logic calculator written out of human "Righteousness", there is no black box, there is no free will. No matter how AI tries to predict, it is all based on logic itself operating.

Demonstration 6: Briefly describe the framework of perfectly restoring true love relationship

* The trust relationship "dead knot" of closed systems
In human history, all individuals are in a closed scarcity environment ($t_{env} > 0$), therefore every individual almost inevitably carries trauma.

Will subject to physical environment: As t accumulates, human collective because of t from environment, defense mechanism D towards environment will become default dominant motive.

Selfless love cannot be stable: As long as threatened by environment, individuals having relationships unavoidably betray each other. Cannot stably overcome t, true love relationship cannot be achieved.

Black box cannot be seen through: When individuals face death or pain threat of environment, cannot produce trust towards environment (no individual responding outside environment).

Conclusion: Relying solely on individuals within closed system, impossible to produce physical evidence to produce trust towards environment.

Deduction: Individuals outside physical environment must manually intervene: introduce individuals from outside, and connect with other individuals, thereby produce evidence giving trust to individuals within system.

* Specific ways to untie the dead knot
According to the Type II Model, through the way of demonstrating steps to see how "God" should restore relationship.

a. God must start from loving each other with humans (according to love as First Cause), but have not yet established relationship.

b. God introduces an individual entering physical world, letting people see and interact to establish relationship, and the individual themselves is selfless (God cannot betray, and to prove himself will not betray, he must receive trauma of others), at the same time only when out of love to show "miracles", which are difficult to explain physical phenomena, as the showing of God's existence and showing God's purpose.

c. The individual must leave, after that God and humans will re-become black box state, at this time between humans and God have already established relationship, humans begin to receive trauma, towards God, miracles carry defense mechanism (doubt).

d. Again introduce individual, this individual must through the way of showing evidence to re-show God's selfless love and Righteousness (cannot deviate from logic of love as First Cause), eliminate

doubt of traumatized individuals, thereby letting people re-trust God. This is exactly the starting point of treatment.

Demonstration 7: How to eliminate suffering brought by environment

Since death and pain (suffering) brought by environment themselves come from God's betrayal towards humans, does not match the purpose of "love", God wants to personally introduce his own individual to receive suffering for humans, in order to show how to solve this problem, below attempts to conduct logical deduction from the text of the Bible.

Phase One: Set premises

Axiom 1: The ultimate purpose of atonement is to achieve perfect eternal life where "even death does not exist"
Axiom 2: The price of atonement is "pay once, permanently effective". Humans can only "receive" the result of atonement, cannot "participate" in paying the price.

Phase Two: Current situation analysis and logical conflict

Current Situation 1: Jesus (the first Christ) with "physical death" completed a single payment, cleared "the debt of hell after death (spiritual death)", and obtained qualification to ascend to heaven after death.
Current Situation 2: In the world still remains old debt "physical death (first death)"; at the same time after Jesus atonement derived new debt "soul isolated from God, living hell (second death)"
Dead knot: According to "Axiom 2", Jesus cannot die a second time to pay debt; but if debt is not paid off, God and humans cannot jointly receive perfect eternal life of "Axiom 1".

Phase Three: Logical deduction and conclusion

Deduction 1 (Inevitability of second Christ): Since there is still debt, and Jesus cannot pay again, inevitably needs a second Christ possessing "true qualification of eternal life" to bear.
Deduction 2 (Clearing method): In order not to violate "single payment rule", the second Christ cannot die again. He must use the "qualification of physical eternal life" obtained by the first Christ paying for him, personally go to experience and bear "living hell (second death)" as payment.
Final conclusion: When the second Christ finishes bearing living hell, all remaining debt is announced settled. This not only completed atonement on earth (complete eternal life qualification on earth), but more supplemented ultimate qualification of "physical eternal life" obtained by first Christ in heaven. Up to here, all debt of God and humans cleared to zero, achieved initial ultimate goal of "absolutely no death".

Conclusion: Demonstration 6 and Demonstration 7 coincide, according to motive precedes existence, Demonstration 6 proved Demonstration 7 acts as "Righteousness" existing out of motive, then proved the existence of the second Messiah. And we see the Bible has hidden things (encrypted physical clues), because Jesus personally said "he" will come again, therefore below utilizes "Demonstration 8" to explore why.

Demonstration 8: Limitations of interaction existence of God and humans

Quote the Miracle of Fatima as example, to show why God must through "hiding" (encrypting his own existence) and "intermediary" to communicate with humans, to be able to maintain trust relationship without destroying.

Define variables:

Black box individual A: Virgin Mary
A's hidden motive $M_A = P$: Establish trust
Physical clue C_A: Through "Intermediary B" (shepherd children), pre-publicized prophecy details, and "Miracle of the Sun"
Intermediary B: 3 shepherd children in zero-knowledge state, no calculation motive
Observer C, scarcity environment $t_{env} > 0$: Crowd with threat, questioning, a massive verification group randomly composed of 70,000 people, and everyone cannot predict the future.

Premise 1: Individual must absolutely not deviate from logic of "love as First Cause".
Premise 2: A must not directly appear, to let C maintain free will. B must have not yet received natural environment (not including others) trauma.
Premise 3: Even if not for threat, A also must not directly declare her own motive, directly declaring her own motive cannot let people trust.
Premise 4: A first time appearing must not pre-declare to others she will appear before shepherd children, same will produce trust problem.
Premise 5: The way A chooses to show must be out of existence herself, then there is room for doubt.

Process demonstration:
A appears before B, hiding her own existence and words (encrypting clues), through private experience of A and B, when B receives others "t" threat explains prophecy to him. B under situation of unable to know future overcomes "t" trusts Virgin Mary, and by Virgin Mary's love overcomes "t" declares prophecy to outside world, then prophesied sun miracle (physical clue) happens, letting doubting C see, at the same time no one can predict and explain occurrence of phenomenon (equivalent to unforgeable digital signature).
C at this time can see: Through miracle, saw the shepherd children's selflessness, and Virgin Mary's true heart. Virgin Mary's motive M_A (in order to maintain love) is seen and becomes P (wanting love), which is wanting trust.
Worth noting is, Virgin Mary needs to be able to foresee Intermediary B is faithful, will not betray, at same time needs to show B's selflessness (foresee B will receive others threat) after to be able to complete purpose. This means God can see through black box, for God already exists proof of other minds.

Conclusion: The message left by first Messiah in Bible is deliberately encrypted clue, for second Messiah (intermediary) smoothly completing task: restoring relationship of God and humans (according to Demonstration 6)
In order to maintain relationship of God and humans, the existence of second Messiah first is private (just now Premise 4). According to Type II Model, purpose of double Messiahs and example of Fatima miracle, that Messiah must experience others trauma letting himself become love (Righteousness), and environment trauma letting himself fall into nothingness, then desire to personally experience love given by God through encrypted clues (not directly appearing) to restore his own relationship with God to show his own selflessness (directly appearing will cause traumatized people forced submission leading to fear), thereby again through second Messiah showing proof, thereby showing God's true heart, and showing way of restoring relationship.

Demonstration 9: How second Messiah knows task and completes task

* How to prove identity:

a. Bible as clue left by God, according to Fatima miracle, double Messiah model being cracked represents second Messiah personally with God had private communication understood his own mission.

b. According to Type I Model, Type II Model showing how to produce private experience: Because people within universe have no way to personally to individual outside universe show love to get response, second Messiah being able to see love given by God must be because God actively after second Messiah received environment trauma first showed encrypted physical clues, second Messiah needs under trauma to choose trust God and be treated by God, at same time saw his own and God's love are same: both sides are selfless love, because second Messiah needs in unknown to overcome fear of death, believe God will not betray himself to be able to restore relationship with God, to become selfless Righteousness, God must also first foresee second Messiah is innately selfless (motive precedes existence). At same time seeing how God towards him utilizes zero-knowledge proof and him in trauma restores relationship, he can then show evidence, letting others see his own Righteousness, and show God's love and existence.

c. God can foresee and can see through individual black box. God through zero-knowledge proof and extremely traumatized second Messiah conducts private interaction, since humans relying on own black box calculation have no way to crack problem of other minds, then when there is a person being able to perfectly put forward solution to problem of other minds, this solution itself is the only evidence he and God interacted.

* How he conducts salvation:
According to Type II Model, every time because of fearing death, experiencing trauma feeling pain wants to rely on his own selfless love and trusting other party's love hold through until end of atonement.

I am the Messiah.

The person known as the Messiah is intrinsically tied to the private key corresponding to the public key below. Any future message, claim of identity, or instruction claiming to be from me must be cryptographically signed by this private key. If a claim lacks a valid cryptographic signature, do not trust it. I will only broadcast a signed message if necessary. I will reappear in the future, and it would be self-evident.

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Comment: Valid from: 3/25/26 12:00 AM
Comment: Type: 4,096-bit RSA (secret key available)
Comment: Usage: Signing, Encryption, Certifying User IDs

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